

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently amended) An electron tube comprising:
at least one metal film formed on ~~a~~ ~~an electrically insulating~~ base;
at least one linear member provided above the base; and
at least one additional member for connecting one end of said at least one linear member to said at least one metal film,

wherein ~~said one end of said at least one linear member is connected to said at least one metal film~~ said at least one additional member is welded to a portion of said at least one metal film, said one end of said at least one linear member being disposed between said at least one additional member and said at least one metal film and a bottom of the portion of said at least one metal film being in direct contact with the base.

Claim 2 (Original) The electron tube of claim 1, wherein said at least one additional member is at least one metal piece, and on the condition of interposing said at least linear member between said at least one metal piece and said at least one metal film, said at least one linear member is fixedly attached to said at least one metal film by welding said at least one metal piece to at least one metal film.

Claim 3 (Original) The electron tube of claim 1, wherein said at least one additional member independently provided to said at least one linear member.

Claim 4 (Original) The electron tube of claim 1, wherein said at least one linear member is divided into a plurality of sets and said at least one metal film is at least one pair of metal films, each of the sets being provided with one pair of said at least one pair of metal films.

Claim 5 (Currently amended) An electron tube comprising:
at least one metal film formed on ~~a~~ ~~an electrically insulating~~ base;
at least one linear member provided above the base and divided into a body and
a fixed portion for fixedly attaching the body to said at least one metal film, and
at least one additional member, formed on the fixed portion, for connecting said
at least one linear member to said at least one metal film,
wherein ~~said at least one linear member is fixed to said at least one metal film~~
~~by welding said at least one additional member to said at least one metal film~~ said at
least one additional member is welded to a portion of said at least one metal film, a
bottom of the portion of said at least one metal film being in direct contact with the base.

Claim 6 (Original) The electron tube of claim 1, wherein said at least one linear
member is a grid and said at least one metal film is a grid electrode.

Claim 7 (Original) The electron tube of claim 5, wherein said at least one linear
member is a grid having a first and a second metallic member, and the second metallic
member of the grid is a said at least one additional member.

Claim 8 (Original) The electron tube of claim 5, wherein said at least one linear
member is a grid having metallic member and an insulating member.

Claim 9 (Original) The electron tube of claim 1, wherein said at least one linear
member is a cathode, and said at least one metal film is a cathode electrode.

Claim 10 (Original) The electron tube of claim 1, wherein said at least one linear
member serves to support a cathode, a grid or a getter.

Claim 11 (Original) The electron tube of claim 1, wherein said at least one linear
member is fixed to said at least one metal film under the condition that a tension force
is applied thereto.

Appl. No. 10/076,516

Claim 12 (Original) The electron tube of claim 1, wherein said at least one metal film is formed in a thin film.

Claim 13 (Original) The electron tube of claim 1, wherein the attachment of said at least one linear member is achieved by using an ultrasonic bonding.

Claim 14 (Original) The electron tube of claim 1, wherein said at least one metal film and said at least one additional member are made of the same metallic material to each other.

Claim 15 (Original) The electron tube of claim 1, further comprising at least one spacer for defining a distance between said at least one linear member and the base and wherein the electron tube is a fluorescent radiation tube.

Claim 16 (Original) The electron tube of claim 1, further comprising a vessel, and said base being in the vessel.

Claim 17 (Original) The electron tube of claim 1, further comprising a vessel including at least two substrates, and the base being the vessel.

Claim 18 (Withdrawn) A method for producing an electron tube comprising the steps of;

- forming at least one metal film on a base;
- forming at least one additional member on at least one linear member; and
- fixing said at least one linear member to said at least one metal film by ultrasonic-bonding said at least one additional member to said at least one metal film.

Claim 19 (Withdrawn) The method of claim 18, wherein said at least one additional member is at least one metal piece, and on the condition of interposing said at least one linear member between said at least one metal piece and said at least one

metal film, said at least one linear member is fixedly attached to said at least one metal film by welding said at least one metal piece to at least one metal film.

Claim 20 (Withdrawn) The method of claim 19, wherein said at least one metal piece is at least one wire for the wire bonding and said at least one wire is welded to said at least one metal film by using the ultrasonic wire bonding.

Claim 21 (Withdrawn) The method of claim 18, wherein said at least one linear member is respectively divided into a body and two fixed portions for fixedly attaching the body to said at least one metal film, said at least one additional member is formed on the fixed portions, and said at least one linear member is fixed to said at least one metal film by welding said at least one additional member to said at least one metal film.

Claim 22 (Withdrawn) A method for producing an electron tube comprising the steps of;

- forming a metal film on a vessel;

- forming an additional member on a linear member; and

- fixing the linear member to the metal film by diffusion-welding or solid-state-welding the additional member to the metal film.

Claim 23 (Withdrawn) An electron tube fabricated by employing the method of claim 18, comprising:

- said at least one metal film formed on the base;

- said at least one linear member provided above the base; and

- said at least one additional member for connecting said at least one linear member to said at least one metal film,

wherein said at least one linear member is connected to said at least one metal film.

Claim 24 (Withdrawn) A method for producing the electron tube of claim 1, comprising the steps of;

forming said at least one metal film on the base;

forming said at least one additional member on said at least one linear member;

and

fixing said at least one linear member to said at least one metal film by bonding said at least one additional member to said at least one metal film to thereby fabricating an electron tube.

Claim 25 (Previously presented) The electron tube of claim 1, wherein said one end of said at least one linear member is directly connected to said at least one metal film by welding said at least one additional member to said one end of said at least one linear member located on said at least one metal film.

Claim 26 (Previously presented) The electron tube of claim 1, wherein a part of said at least one linear member is a tension force applying portion for exerting a tension force.

Claim 27 (Previously presented) The electron tube of claim 26, wherein the tension force applying portion has coiled shape.

Claim 28 (Previously presented) The electron tube of claim 15, wherein said at least one spacer is made of a conductive material disposed on said at least one metal film.

Claim 29 (Previously presented) The electron tube of claim 5, wherein said at least one linear member is a grid and said at least one metal film is a grid electrode.

Appl. No. 10/076,516

Claim 30 (New) The electron tube of claim 1, wherein said at least one metal film and said at least one additional member are made of one material selected from the group consisting of Al, Cu, Ag, Au, Pt, Nb, V and Ni.

Claim 31 (New) The electron tube of claim 1, wherein said at least one metal film and said at least one additional member are made of an alloy of one material selected from the group consisting of Al, Cu, Ag, Au, Pt, Nb, V, Ni.

Claim 32 (New) The electron tube of claim 5, wherein said at least one metal film and said at least one additional member are made of one material selected from the group consisting of Al, Cu, Ag, Au, Pt, Nb, V and Ni.

Claim 33 (New) The electron tube of claim 5, wherein said at least one metal film and said at least one additional member are made of an alloy of one material selected from the group consisting of Al, Cu, Ag, Au, Pt, Nb, V, Ni.